

Time: 3 hours

Max. Marks: 80

- 1. Question No. 1 is Compulsory**
- 2. Attempt any 3 questions from Q.2 to Q.6. Each question carries 20 marks.**

Q.1	a. Define Saas, Paas and Iaas along with their relative benefits.	5
	b. What are election algorithms? Explain any one.	5
	c. Name the various clock synchronization algorithms. Describe any one algorithm.	5
	d. What is RPC? Explain the RPC execution mechanism	5
Q.2	a. Discuss the issues in designing and implementing DSM systems.	10
	b. What is process management? Explain features of good process migration	10
Q.3	a. What are physical and logical clock synchronization, explain the drifting of a clock.	10
	b. What is group communication? Explain in detail Message ordering techniques (Absolute, consistent and casual ordering)	10
Q.4	a. Explain cloud computing and various types of the same.	10
	b. What are the Load Balancing transfer policies used for distributed systems?	10
Q.5	a. What are the issues in data security in cloud computing?	10
	b. What are threads? How are they different from process? Explain the various thread models.	10
Q.6	Write a short note on:	20
	a. Mutual Exclusion	
	b. Advantages of Cloud	
	c. Pipeline Thread Model	
	d. Callback RPC	